

ABSTRACT OF THE DISCLOSURE

An active diffracted sound control apparatus comprises a reference microphone for measuring the noise information on a noise source side of a sound insulating wall, a first error microphone for measuring the noise information on a noise receiving side of the sound insulating wall, a speaker arranged in the neighborhood of the sound insulating wall K for generating a control sound to reduce the object sound at a sound receiving point, and a control unit for controlling the output of the speaker based on the outputs of the reference microphone and the first error microphone. The control unit is operated based on a first sound transmission characteristic between the first error microphone and the second error microphone for the noise source and a second sound transmission characteristic between the first error microphone and the second error microphone for the speaker.